TABLE OF CONTENTS

Volume 42

ARTICLES

AOKI, SHINKO / Relation Between the Celestial Reference System and the	
Terrestrial Reference System of a Rigid Earth	309
BAZZANI, A. / Normal Forms for Symplectic Maps of R2n	107
BLITZER, LEON / Hyper-Elliptic Orbits	215
BOIS, ERIC / Second-Order Theory of the Rotation of an Artificial Satellite	141
CARIÑENA, JOS F. IBORT, LUIS A. and LACOMBA, ERNESTO A. / Time	
Scaling as an Infinitesimal Canonical Transformation	201
CASASAYAS, J. JORBA, A. and NUNES, A. / Qualitative Study of Motion	
under the Potentials $V(r) = -ar^{-\alpha}$, $a, \alpha \in \Re^+$	129
CID, RAFAEL and SATURIO, MARENIA SAN / Motion of Rigid Bodies in a	
Set of Redundant Variables	263
CONTOPOULOS, G. / Critical Cases of 3-Dimensional Systems	239
CUSHMAN, R. / An Analysis of the Critical Inclination Problem Using Sin-	
gularity Theory	39
DIAZ-BOBILLO, IGNACIO J. and ZADUNAISKY, PEDRO E. / On the Non-	
Gravitational Forces in the 1986 Return of P/Halley	385
HAGEL, JOHANNES and DVORAK, RUDOLF / An Analytical Study of Stable	
Planetary Orbits in the Circular Restricted Problem	355
HUANG, TIAN-YI and VALTONEN, MAURI J. / Two Multiderivate Multistep	
(MDMS) Integrators	223
KINOSHITA, HIROSHI and NAKAI, HIROSHI / Note on Secular Perturbations	
Between a Retrograde Body and a Prograde Body	279
LANE, MARK T. / An Analytical Treatment of Resonance Effects on Satellite	
Orbits	3
MAVRAGANIS, A. G. / Global Regularization of the Magnetic-Binary Problem	169
PERDIOS, E. and MARKELLOS, V. V. / Stability and Bifurcations of Sitnikov	
Motions	187
PETROSKY, T. Y. and BROUCKE, R. / Area-Preserving Mappings and Deter-	
ministic Chaos for Nearly Parabolic Motions	53
SERAFIN, R. A. and WNUK, E. / On the Symmetric Difference Quotient and Its	
Application to the Correction of Orbits (II): A Numerical Analysis	175
SHEPPERD, STANLEY W. / Naturally Occurring Continued Fractions in the	
Variation of Kepler's Equation	91
SOFFEL, M. WIRRER, R. SCHASTOK, J. RUDER, H. and SCHNEIDER, M /	
Relativistic Effects in the Motion of Artificial Satellites: The Oblateness of the	
Central Body I	81
SUN, YI-SUI and YAN, ZHI-MING / A Perturbed Extension of Hyperbolic Twist	
Mappings	369
VOINOV, A. V. / Motion and Rotation of Celestial Bodies in the Post-Newtonian	
Approximation	293
WNUK, EDWIN and WYTRZYSZCZAK, IWONA / The Inclination Function in	
Terms of Non-singular Elements	251